

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

09/16/2011

Thomas Costello
Assistant District Attorney, Suffolk County

Dear ADA Costello,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Lisa Glazer.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Lisa Glazer was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)
GLP/GMP training with Massachusetts Biologic Laboratory.
QC/QA training according to FDA Codes and Regulations.
GC and GC/MS trainings with Agilent Technologies and Restek.
HPLC and LC/MS/MS trainings with Waters Cooperation.
FTIR training with Spectros.
TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)
Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Lisa A. Glazer

Education

Bachelor of Science Degree, CHEMISTRY January 2006
UNIVERSITY OF NEW HAVEN
Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Bachelor of Science Degree, FORENSIC SCIENCE January 2006
UNIVERSITY OF NEW HAVEN
Coursework included: Organic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus, Biology, Criminal Justice and Forensic Science courses

Employment

Chemist I, II State Laboratory Institute (May 2007-Present)
Massachusetts Department of Public Health
Drug Analysis Laboratory
➤ Responsible for the identification of substance to determine violation of the Massachusetts drug laws
➤ Operate analytical instrumentation for the purpose of performing forensic drug analysis
➤ Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
➤ Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2007.

Laboratory Technician I (August 2006 – May 2007)

University of Connecticut Chemistry Department - Storrs, CT
➤ Prepared unknowns, chemical reagents and supplies for undergraduate chemistry courses
➤ Set-up experiment demonstrations
➤ Properly disposed of hazardous waste from the experiments
➤ Made sure labs were being conducted safely
➤ Kept track of student laboratory paperwork, inventoried glassware and chemicals and helped clean glassware

Intern (September 2005 – November 2005)

CONNECTICUT STATE POLICE FORENSIC LABORATORY - Meriden, CT
➤ Worked on a Pyrolysis Gas Chromatography project
➤ Observed in the GSR testing, Forensic Biology, DNA, Questioned Documents, Black and White Photo, Latent Prints, Firearms, Trace Evidence and Color Photo Units

Boston Police
DEPARTMENT

DRUG RECEIPT

CC #

BOOK #

67

PAGE #

113

DESTRUCTION #

District/Unit B-4 DCUName & Rank of Arresting Officer Sgt. Det. Keenan / Sgt. Det. Daley ID# 10652
LT. DET Kern

DEFENDANT'S NAME

ADDRESS

CITY

STATE

MA

LAB USE ONLY

DESCRIPTION OF ITEMS SUBMITTED

GROSS QUANTITY

GROSS WEIGHT

ANALYSIS NUMBER

White Rock (crack cocaine)

6 plb's

10.36g

Green Herb (marijuana)

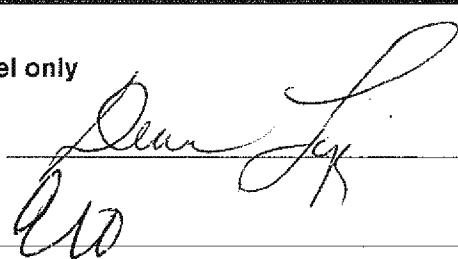
2 plb's

19.93g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

Received by

ID# 9370Date 4-6-11

ECU Control #

No. [REDACTED] Date Analyzed: 04/10/11
City: Boston D.C.U. Police Dept.
Officer: P.O. Diana Lopez
Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 6 Cont: pb
Date Rec'd: 04/06/2011 No. Analyzed: 2
Gross Wt.: 10.36 Net Weight: 1.31
Tests: 12 ADD
Prelim: Cocaine© Findings: Cocaine© 2011

No. [REDACTED] Date Analyzed: 06-15-11
City: Boston D.C.U. Police Dept.
Officer: P.O. Diana Lopez
Def: [REDACTED]
Amount: Subst: VM
No. Cont: 2 Cont: pb
Date Rec'd: 04/06/2011 No. Analyzed: 1
Gross Wt.: 19.93 Net Weight:
Tests: 3 ADD
Meth© Meth©
Diaz©
Prelim: Findings: Marijuana

G/H/S
G/DOOR, S

Answers = 14.5
Answers = 13.3

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ASJ

No. of samples tested: _____ Evidence Wt. _____

PHYSICAL DESCRIPTION: Gross Wt (lb): 1.9670

OFF white chunky substance Gross Wt (): _____

17 6 phs Pkg. Wt: _____

Net Wt: _____

1 large pb

$10.92 \text{ gross wt} - \text{pb} = 1.1586$

5 small pb

net wt = 0.8328

double bagged

Small = gross wt 5 pb = 0.8056

gross wt - pb = 0.1901

net wt = 0.0961

PRELIMINARY TESTS

Spot Tests

Cobalt

2 Thiocyanate (-) +

2 Marquis -

2 Froehde's -

2 Mecke's -

Microcrystalline Tests

Gold

2 Chloride +

2 TLTA (7) +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS COCAINE

DATE 6-8-11

GC/MS CONFIRMATORY TEST

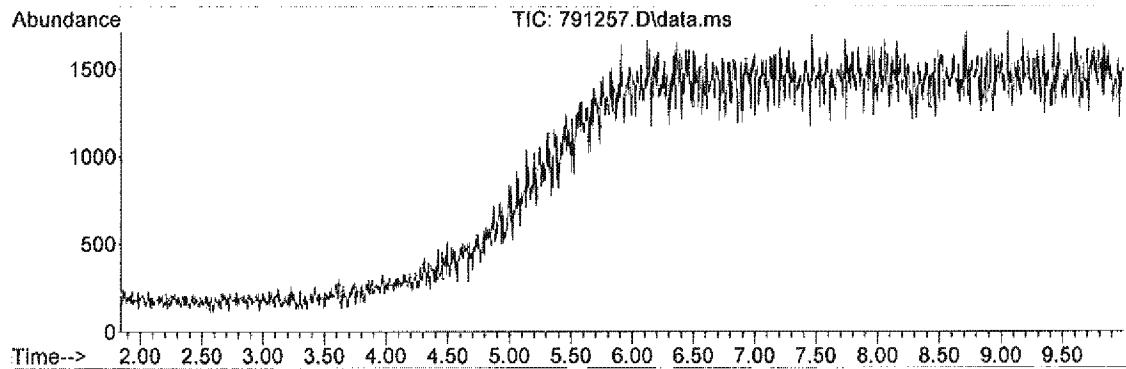
RESULTS COCAINE

MS
OPERATOR WAG

DATE 6-10-11

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791257.D
Operator : ASD
Date Acquired : 9 Jun 2011 20:56
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



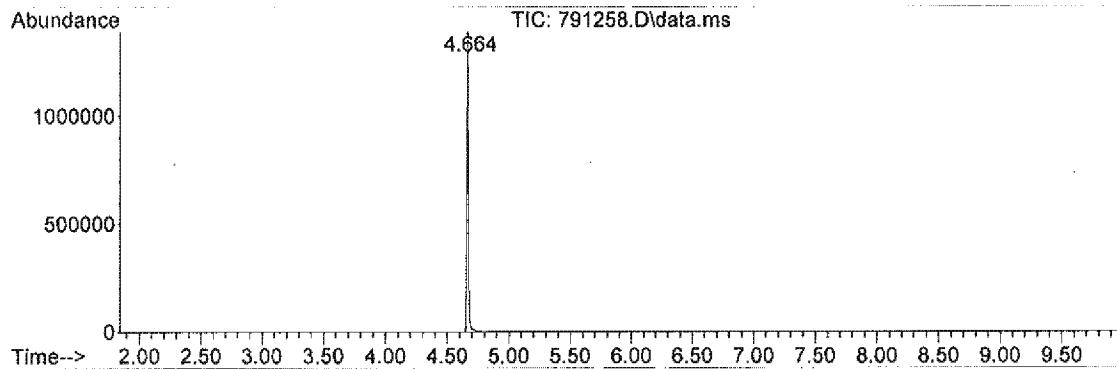
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

✓ 9/15/11 PDR

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791258.D
Operator : ASD
Date Acquired : 9 Jun 2011 21:09
Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 58
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.664	1216770	100.00	100.00

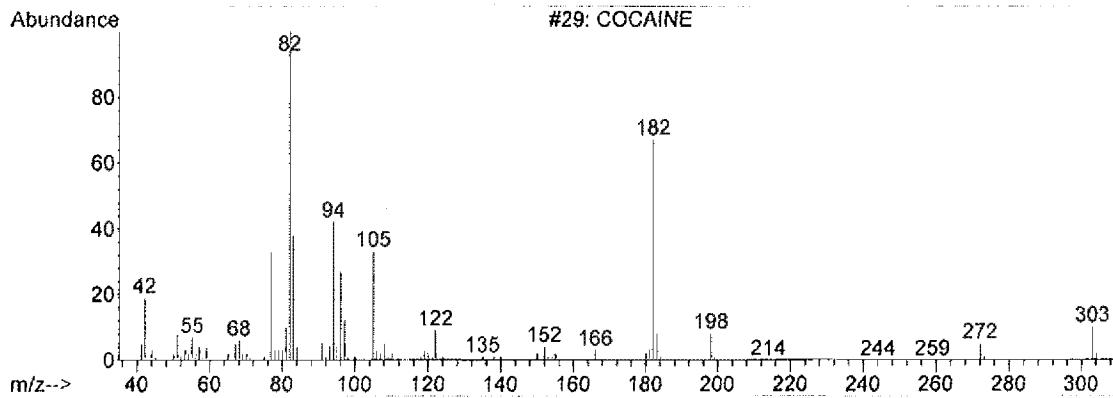
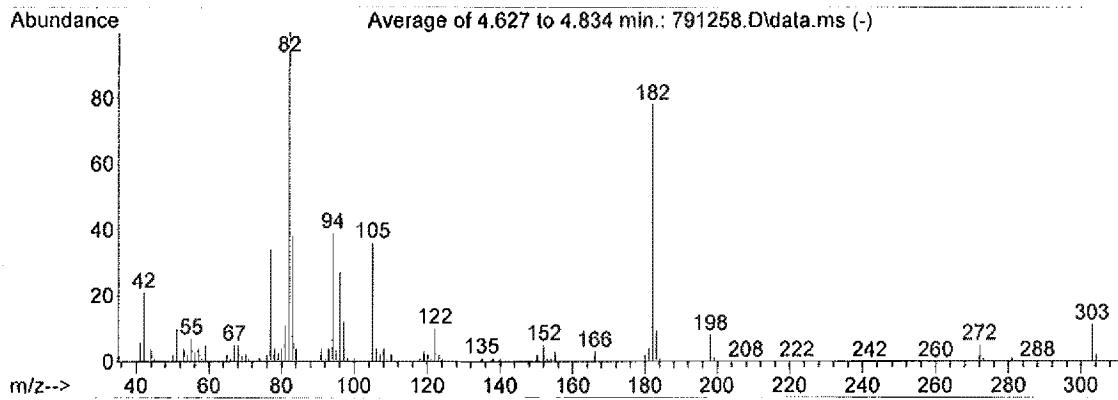
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791258.D
 Operator : ASD
 Date Acquired : 9 Jun 2011 21:09
 Sample Name : COCAINE STD
 Submitted by : ASD
 Vial Number : 58
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

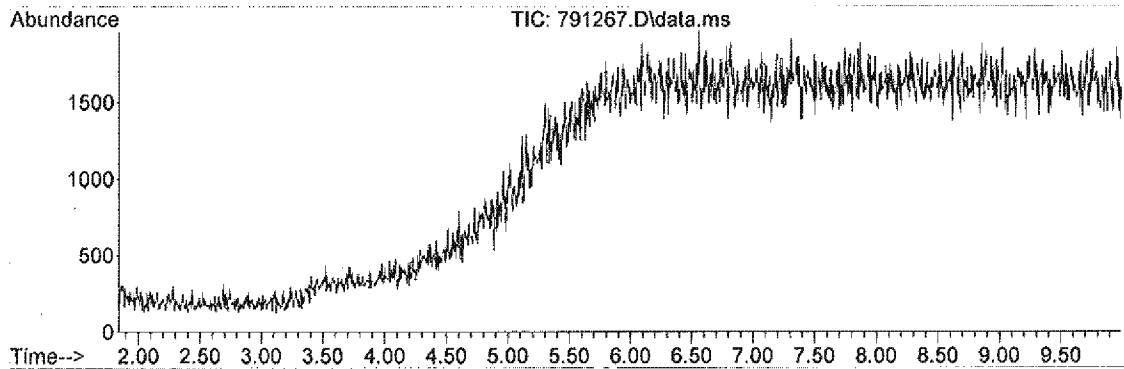
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791267.D
Operator : ASD
Date Acquired : 9 Jun 2011 23:03
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

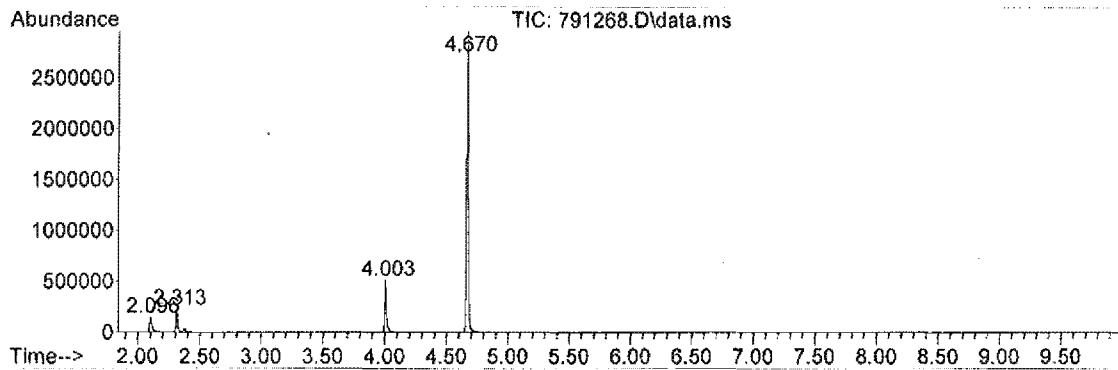


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791268.D
Operator : ASD
Date Acquired : 9 Jun 2011 23:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 68
AcquisitionMeth: DRUGS.M
Integrator : RTE



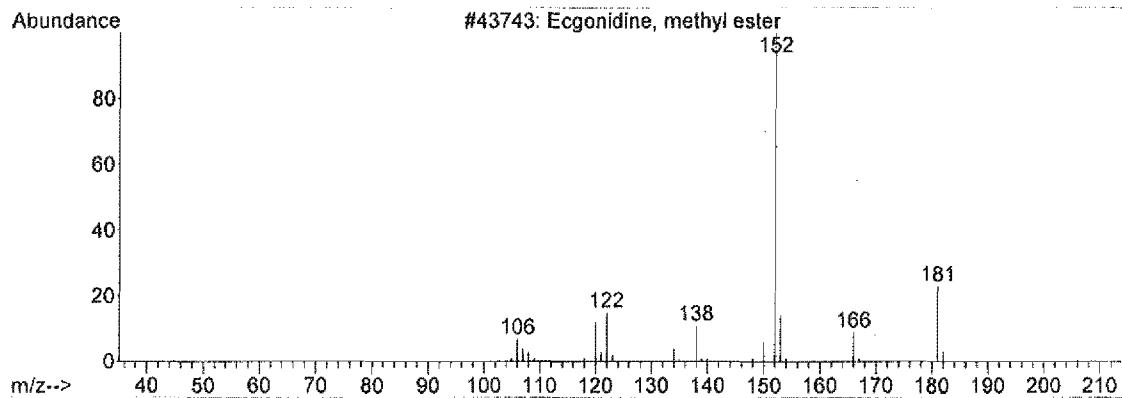
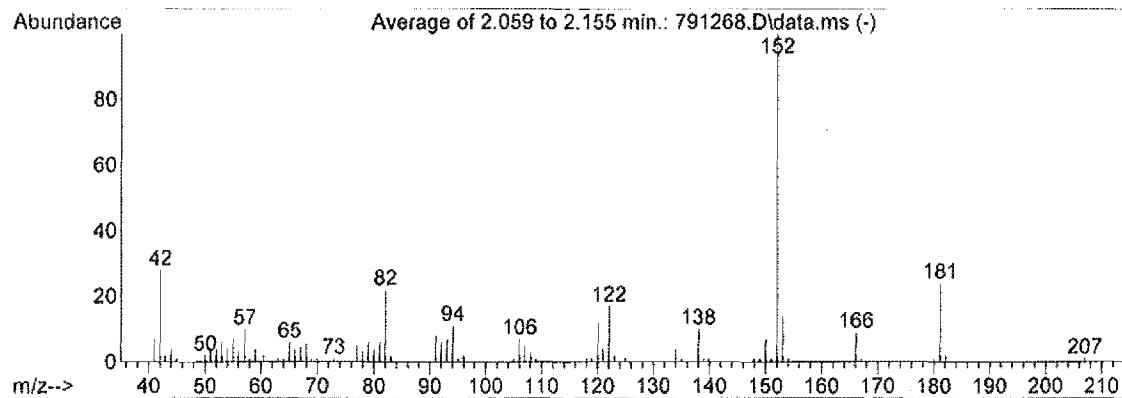
Ret. Time	Area	Area %	Ratio %
2.096	210228	5.12	6.70
2.313	230403	5.61	7.34
4.003	528463	12.86	16.83
4.670	3139284	76.41	100.00

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791268.D
Operator : ASD
Date Acquired : 9 Jun 2011 23:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 68
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.10	C:\Database\NIST05a.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	97
		Benzeneethanamine, 3,4-dimethoxy-	000120-20-7	43

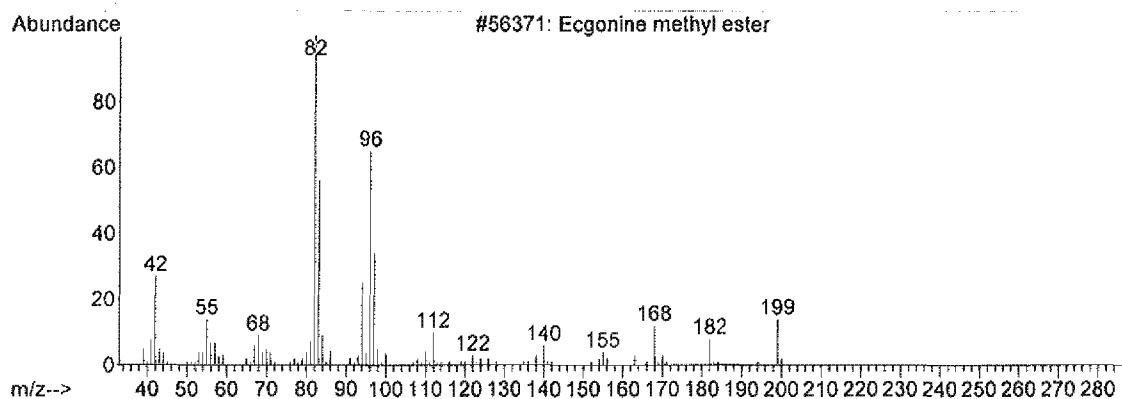
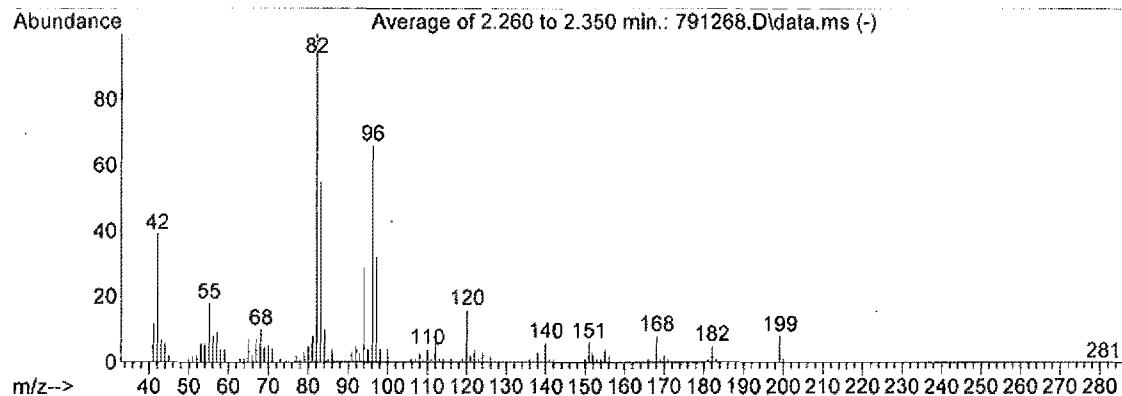


Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791268.D
Operator : ASD
Date Acquired : 9 Jun 2011 23:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 68
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.31	C:\Database\NIST05a.L		
		Ecgonine methyl ester	106293-60-1	98
		Ecgonine methyl ester	106293-60-1	98
		Ecgonine methyl ester	106293-60-1	96

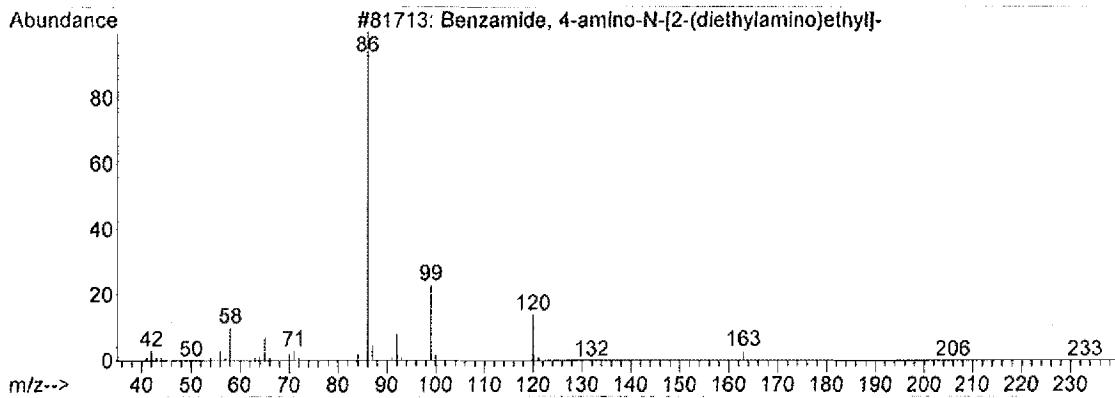
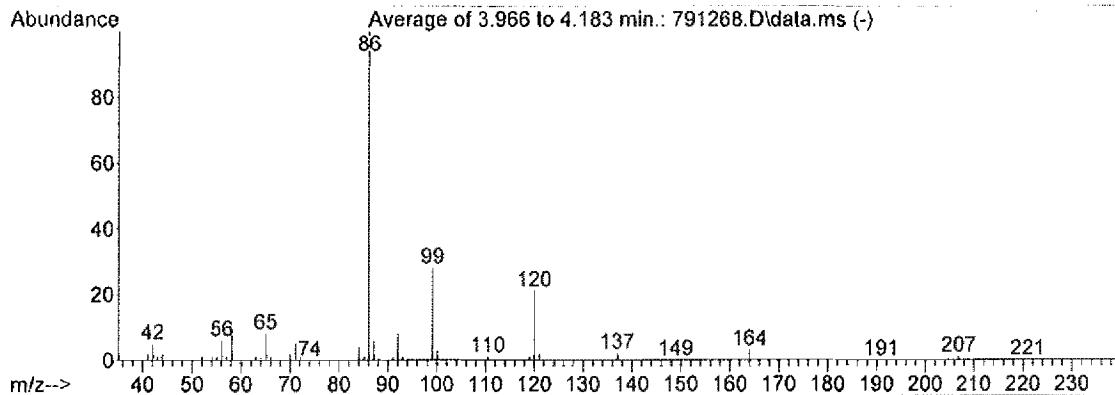


Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791268.D
Operator : ASD
Date Acquired : 9 Jun 2011 23:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 68
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	4.00	C:\Database\NIST05a.L		
		Benzamide, 4-amino-N-[2-(diethylamino)ethyl]-	000051-06-9	83
		Benzoic acid, 4-amino-, 2-(diethylamino)-	000059-46-1	83
		Benzoic acid, 4-amino-, 2-(diethylamino)-	000059-46-1	80

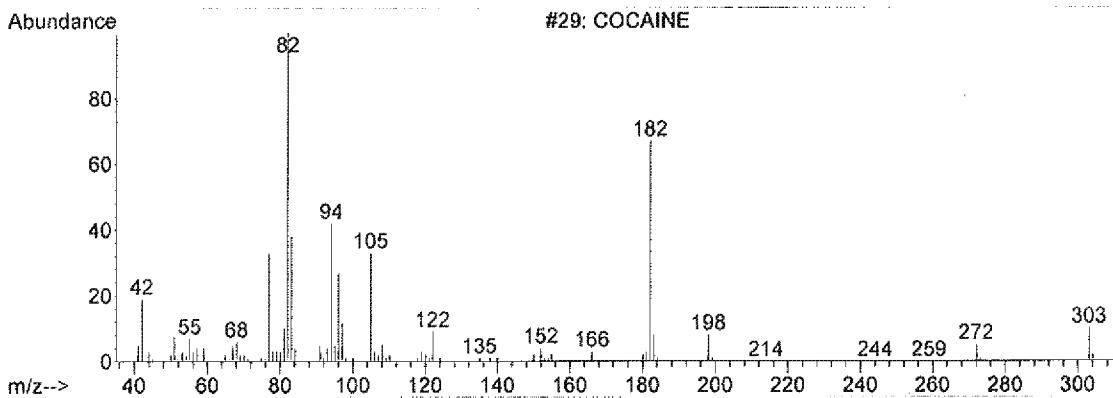
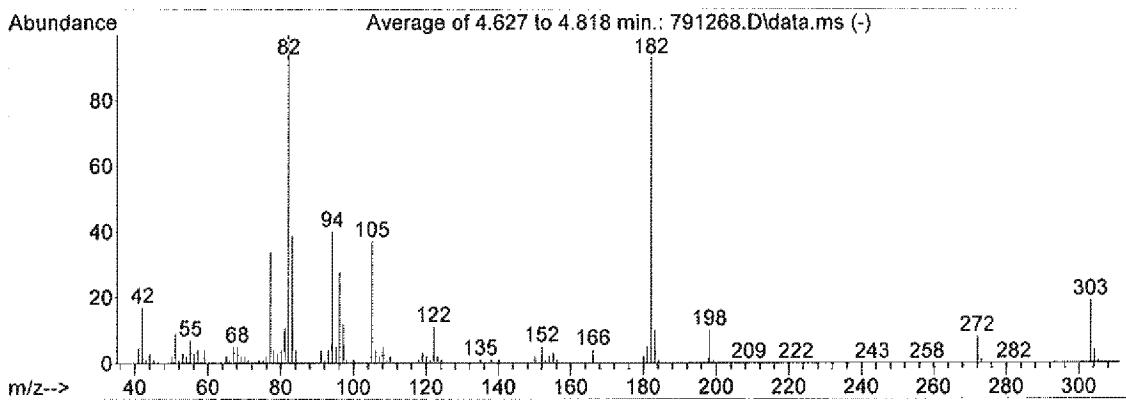


Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791268.D
Operator : ASD
Date Acquired : 9 Jun 2011 23:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 68
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	4.67	C:\Database\SLI.L COCAINE	000050-36-2	99



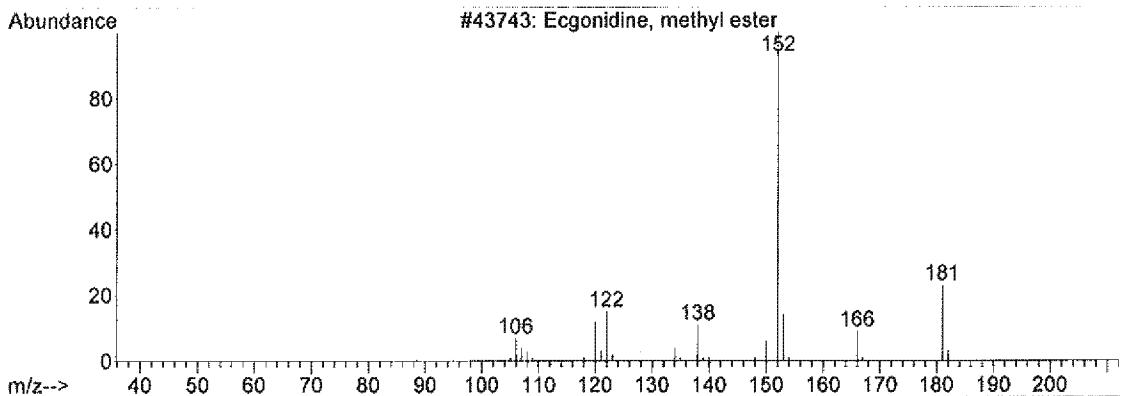
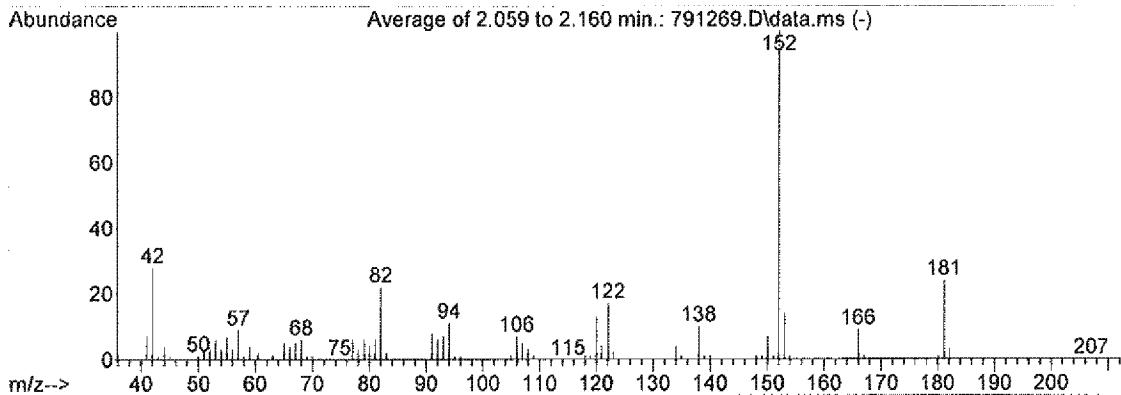
Information from Data File:			
File Name:	: F:\Q2-2011\SYSTEM 7\06_09_11\791269.D		
Operator:	: ASD		
Date Acquired:	: 9 Jun 2011 23:28		
Sample Name:	: [REDACTED]		
Submitted By:	: ASD		
Final Number:	: 69		
Acquisition Method:	: DRUGS, M		
Integrator:	: RTE		
Abundance			
TIC: 791269.D\data.ms			
Time-->	2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50		
0	210813	4.003	
500000			
1000000			
1500000			
2000000			
2500000			
Time-->	2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50		
0	210813	4.003	
500000			
1000000			
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100000000			

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791269.D
Operator : ASD
Date Acquired : 9 Jun 2011 23:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 69
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.10	C:\Database\NIST05a.L		
		Egonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	97
		Benzeneethanamine, 3,4-dimethoxy-	000120-20-7	43

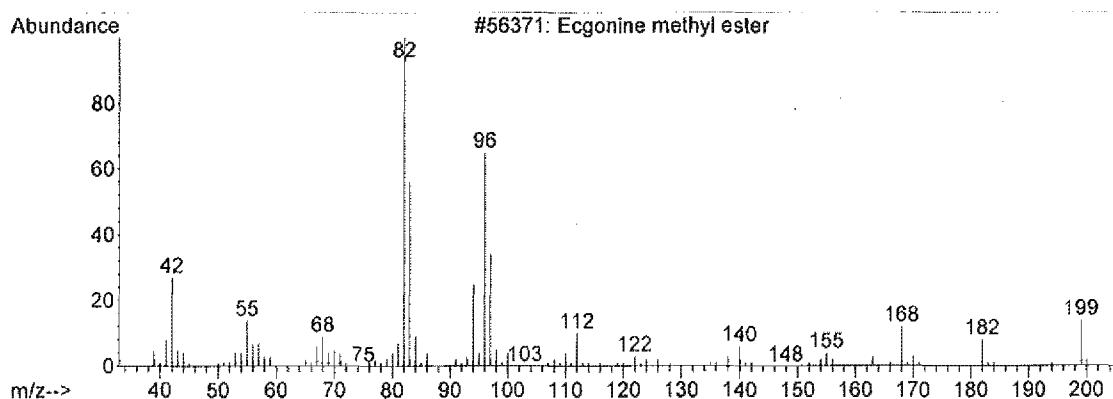
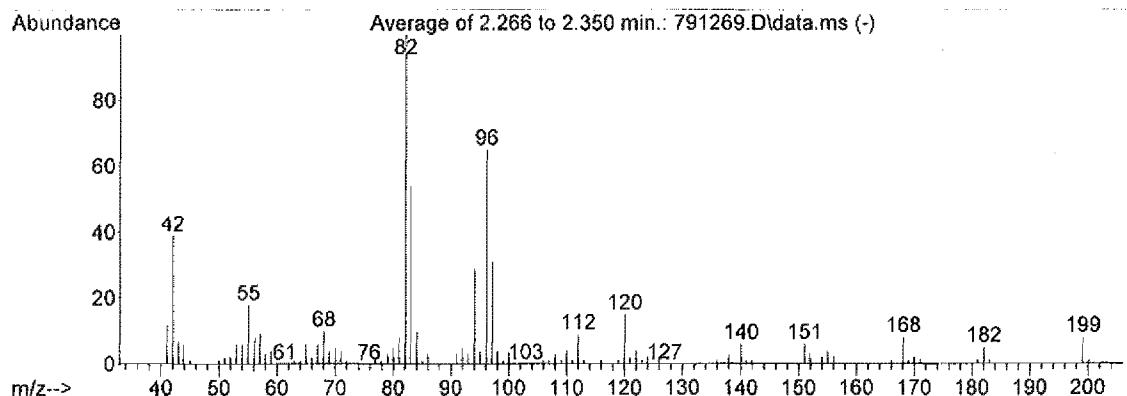


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Search Libraries: C:\Database\SLI.L Minimum Quality: 80
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 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.31	C:\Database\NIST05a.L		
		Ecgonine methyl ester	106293-60-1	97
		Ecgonine methyl ester	106293-60-1	95
		Pseudoecgonine methyl ester	099189-88-5	94

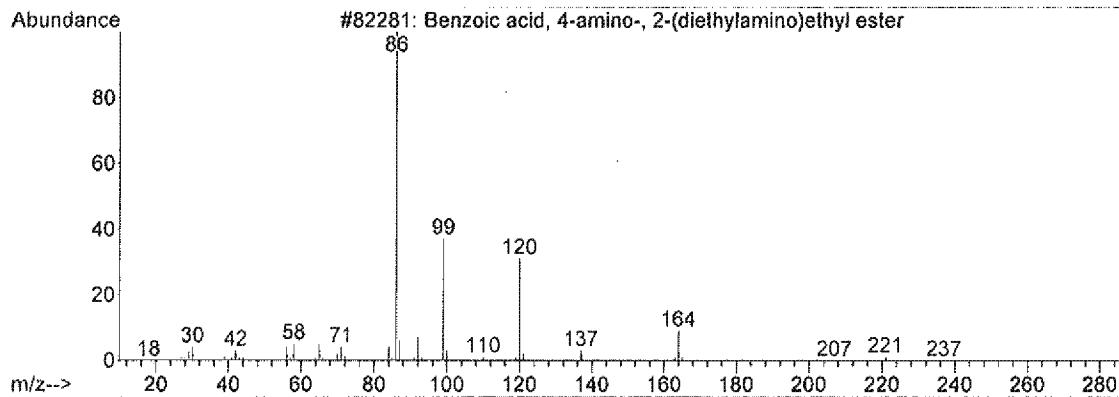
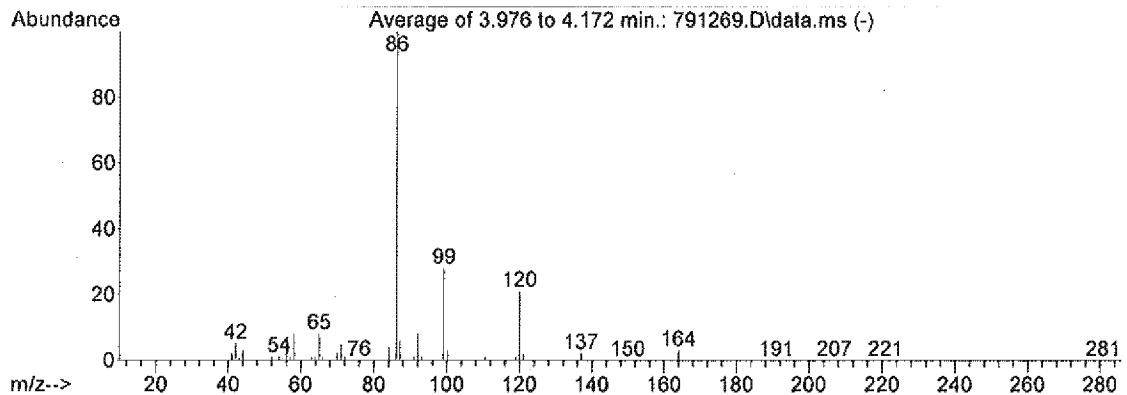


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Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	4.00	C:\Database\NIST05a.L		
		Benzoic acid, 4-amino-, 2-(diethylamino)ethyl ester	000059-46-1	83
		Benzamide, 4-amino-N-[2-(diethylamino)ethyl ester]	000051-06-9	83
		Benzoic acid, 4-amino-, 2-(diethylamino)ethyl ester	000059-46-1	80

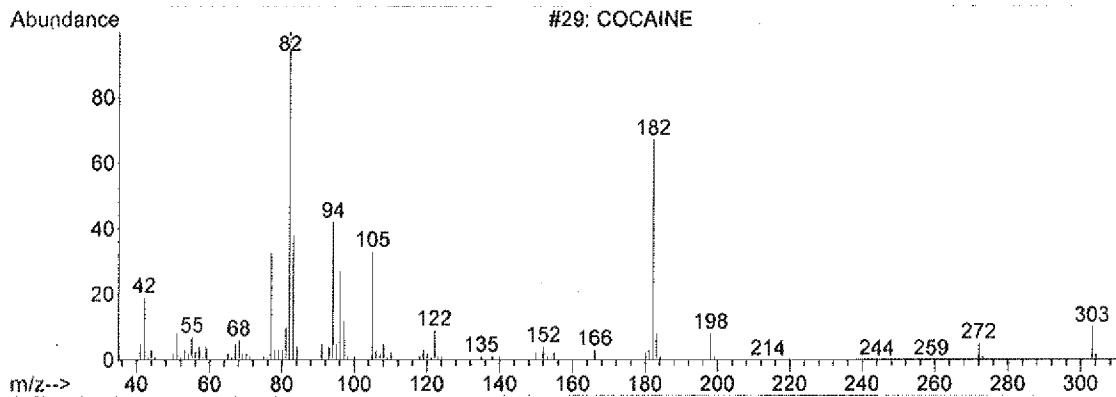
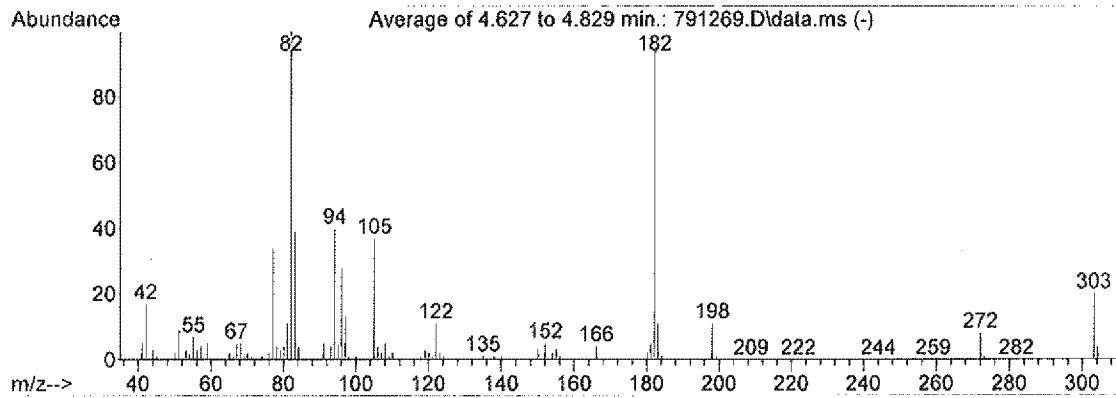


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Integrator : RTE

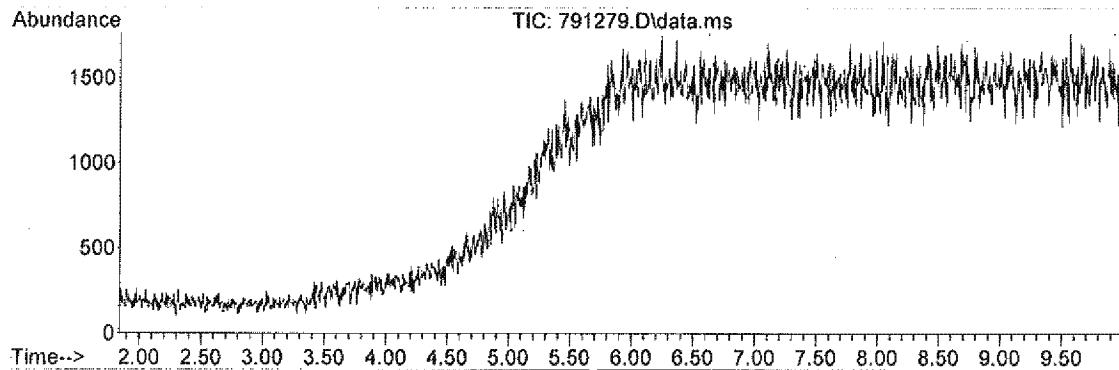
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	4.67	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791279.D
Operator : ASD
Date Acquired : 10 Jun 2011 1:35
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

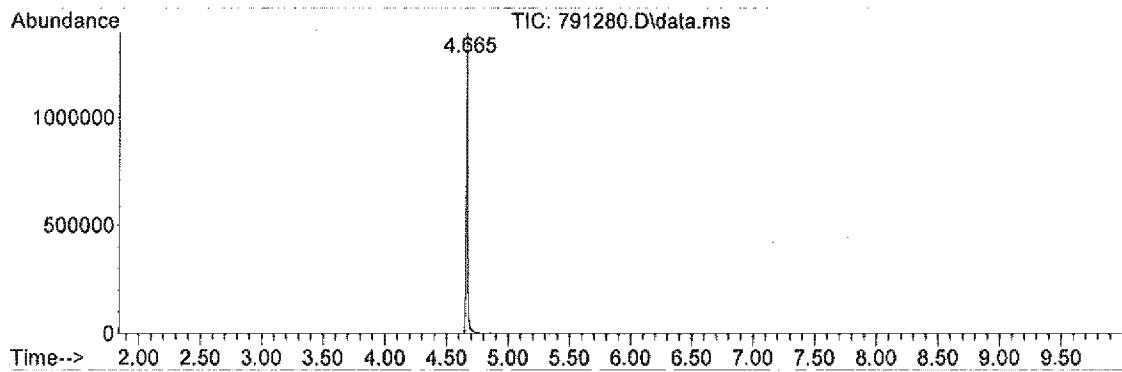


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791280.D
Operator : ASD
Date Acquired : 10 Jun 2011 1:48
Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 58
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.665	1233319	100.00	100.00

Information from Data File:

File Name : F:\Q2-2011\SYSTEM 7\06_09_11\791280.D
Operator : ASD
Date Acquired : 10 Jun 2011 1:48
Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 58
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99

